

U. S. DEPARTMENT OF AGRICULTURE  
BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

Mr. E. A. Goldman

(Official title.)

Period, Feb 20 to Mar 30, 1926

Mexico  
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Feb. 20 <sup>sub.</sup> Acambaro <sup>(5771 ft.)</sup>  
Patzcuaro, Mich., Mexico  
Left Acambaro <sup>(7183 ft.)</sup> 6.35 A.M. arrival  
Patzcuaro 10.51 A.M.

Lake Guatzo, said to cover more  
area than Lake Patz. but not so  
deep. Thousands of acres of tule  
marsh along southern shore. Saw  
from train about 100 pelicans in  
flocks of 50 each. Flock of *L. cyanop.*  
about 40; blue-winged teal mixed  
with *L. cyanop.* about 20. Fulica  
americana - several hundred - most  
common water bird. Lake said to  
have no outlet. Water unusually  
high as shown by dry land veg.  
in edge of water. Heavy rains  
said to have fallen in December.  
alt. 1832 meters at Querendaro.

Morelia - alt. 6070.

Feb. 20 con.

Globe Pate Evans, alt. 2044 at station  
Lima, Peru.

*Tithymalus* thick

Mixed with about 50 birds in  
open area, - a little later.  
Glaucous about 500 and still others  
in groups many into aggregating thousands.  
- many others small groups  
thin - 2nd in number.

*Aristonetta*

~~xxxxx~~ x vol. - 11, open water 3,

*Olegia guianensis*

ad other small birds,  
P. ... - 6 April -  
32 in point of number.

P. ...

P. ...

*Larus atricilla*?

*Scardafella iria*

Feb. 20 con.

Pintail. Said to be common in  
late marsh at <sup>east</sup> end of lake not visited  
by us. None were seen by me.

Spoonbill. Said to be common  
along with pintail in late marsh  
at east end of lake.

*Marca americana*

*Lungwula cyanocephala*

discors

*Aristonetta*  
~~hypoleuca~~ *valis*

Thousands of  
all these seen in  
but abundance in  
order given.

Zones, although rather, being  
freezing across grasses grow  
so few and many flowers,  
including *Floripendula* near house  
however, appear to be unimpaired.

Feb. 21 (Sun), Patzcuaro  
to Pangua.

Left Patz, 11:20 a.m.

Aguila, mixed pine & oak belt -  
also including many madroños and  
a Rubus noted - apparently a rasp-  
berry. At a small station among  
the pines Geranium were growing  
unprotected (and flowering at this  
season out of doors. Also Sambucus  
and Baccharis bushes, also Quercus  
(common tree type).

Went down for, up to a above  
valley bottom north from point  
a short distance. Pinus indicans, L. S. v. n. of the  
region, no pal. of granado,  
S. v. n. of the region.

1) Pinus - the valley  
is very fertile, but mostly  
about a high Ardea.

Ardea herodias, also saw  
a couple near Ardea - ~~and~~

Shore birds, saw several  
flocks of unidentified shore birds  
near at Rachot, flying over  
marshy land.

Arrived Pangua 6:30 - town  
about 10 miles from R.R. stat.  
~~off the line~~

Feb. 22 (Mon.) Pangua  
to La Borda, left Pangua 12:11  
valley. Pinus no pal. of granado  
of dark heavy soil.  
Original place apparently large  
of mesquite, now mixed with  
Acacia farnesiana. Hill slope  
bordering valley rocky and  
sandy, covered with  
low mixed growth including  
the Ardea, various cacti  
and theropod.

Feb. 22 con.

Zuma River, In most places  
a rather sluggish stream  
flowing bet. low banks but  
in places passes through  
rocky hills where it is  
rapid but very shallow and  
the volume of water at  
this season is <sup>(near Guadalupe)</sup> ~~very~~ <sup>small</sup>  
Wading birds, <sup>in</sup> ~~My~~ <sup>My</sup> ~~quite~~ <sup>large</sup>  
disappear. Warbler stream bottom  
as shown by unfrosted lichen  
while it is to be seen ripped  
by frost on bottom. They  
slab type includes Euphonia,  
my Warbler, and a pink  
cotton tail noted on south  
slope. Also considerable  
tall grass and a cactus  
of Sarambullo type.

Feb. 22 con.

Naval oranges. Good quality  
oranges about 96¢. selling at  
train at Guadalupe for 10 cents  
each, presumably from California.  
Similar oranges in Mexico City,  
price asked was 25 cents each.  
Excellent locally grown oranges of  
fair size are 5 cents each.  
Arrived in Guadalupe 3:15 P.M.

Feb. 23. La Bana to

Pueblo Viejo - return by auto.  
Left town 8 A.M. arrived  
Pueblo Viejo 9:30 A.M.

*Bolanius luteus*

*Junco cyanus* (in tubs)

*Plegadis guarauna*.

*Fulica americana*.

*Ibis* - 2 or 3 seen.

*Gallinula delawarensis* - 2 seen.

50 *Jacana gymn-* 2 seen.

Feb. 23.

Anas diazi - a pair.

Tringa acuta - 2 males sitting on edge of turf rubbing and working down their plumage, about 400 yds. from shore.

Spoonbill (local name cucharón) a large flock. Males sitting on edge of turf preening feathers.  
Querquedula bicolor. A large flock.

Spoonbill - Thousands sitting on mud and feeding in shallow water standing on heads, their bodies bobbing up and down frequently in the water as they begged at something on the bottom.

Actinophorus occidentalis, - 2 seen in tular.

White pelican. About 25 local name "barregon".

Himantopus mex. About a dozen seen near Pueblo Viejo.

Feb. 23 con.

Ibis - local name "cabezi".

Tantalus laculatus - One - local name "corvejón".

Pelecanus - 1 in tular.

Agelaius - flock feeding on mud.

At Pueblo Viejo we were very hospitably received by people and by using horses to cross mud holes we covered much of the vicinity of the water areas of that section now diked off from the lake, on foot.

Marsh wren. Several seen & heard.

Podilymbus podiceps. Several seen.

Podilymbus nig. calif. One quite apparently this seen.

Tringa mac. Local name zanata and also "marraca".

Fregate. Several seen near Fregate.

Feb. 23 con.

has much garbanzo crop which was largely in flower, according to local people, and will not recover even in part. This crop is planted at the end of the rainy season in Dec. and is usually not frost-killed, indicating that temperatures must be mild here.

Feb. 24. La Barta.

Pelecanus. About 200 sitting on mud banks in Rio San Marcos.

Marca. Large flocks - mixed mixed with spoonbills.

Spoonbills - Flocks of about 500 mixed with Marca and with cinnamon teal.

Cinnamon teal. Several small flocks of 20 to 30 in Rio San Marcos.

Feb. 24 con.

Crotophaga sulcirostris - local name "tius". Several said to be <sup>well known</sup> resident. Seen in thickets along water.

Archimophus occid. One seen in Rio San Marcos.

Anas diazi. A number of small groups noted. Commonly sitting on banks or in shallow water - not associated with other ducks.

Totanus. Seven yellow legs. Several seen working over mud in Rio San Marcos.

Falco - Two seen mainly dark color - Chestnut on wings and legs - white bar over the rump and tail tipped with white.

Accipiter cooperii. Saw one drop <sup>lightly</sup> on the back of a spoonbill duck which was out -

Feb. 24 con.

merged and the hawk also  
partly submerged sat on its  
back for perhaps 15 minutes.  
Hawk tried to rise carrying  
duck but could not lift it  
from water. After waiting a  
few minutes more it left  
the duck and alighted on the  
bank about 50 ft. away and  
finally flew farther  
away. Spoonbills, Anas diazi,  
and marsh moved about  
within a few feet of the  
hawk on the ducks back,  
apparently unconcerned, although  
a number had flown or  
moved a short distance  
when the hawk circled  
over them.

Pelecanus rest on mud ~~on~~

Feb. 24 con.

a few moving into the shallow  
water from time to time where  
they thrash about with their  
wings.

Polarus - Greater yellow  
legs - a flock of about 18.

Himantopus mex. In flocks  
of 10 to a dozen.

Lingulula divers - one  
flock of about a dozen.

Larus shicilla? I assumed  
to be this.

Numenius long. 3 - in mud  
& shallow water Rio San  
Morano.

Felica arum, About 100

Hyperolus varif. one seen.

Vireo - Sim. in <sup>close</sup> flocks

Willet - About 10 seen working  
in shallow water, Rio San Morano.

Circus hudsoni small seen.



Feb. 24 con.

Place where pelicans, thousands of ducks and other birds were resting or feeding, now flooded is later to be planted to crops of corn, as the water will recede. Water highest about month of December, dry season lasting until May.

Trip made to border of Lake Chapala where the levee is said to have threatened to break in Dec.

Ducks affected by levee, Many thousands of acres of former marsh at east end of lake have been cut off by levee and a part is now under cultivation yielding excellent crops of corn, garbanzo, etc. Sr. Manuel Muñoz, the President Municipal tells

me that he has hunted a great deal and seems to be familiar with local conditions. As this was the marshy part of the lake it greatly reduced the area available for water birds and ducks have diminished in numbers since about 1910 when the levee was completed.

Feb. 25. La Barca to Tlaxiaco.

Left La Barca 10.10 a.m.

Solitary Sandpiper, one along bank.

Nycticorax naevius -

Sugar cane does well here.

Bulweria viridis

Florida caerulea

Guayaba - along banks seems to do well.

Nycticorax naevius - about 50  
sprung up withers along bank.

Colaptes auratus - about 50

Feb. 25 con

over air on back

~~Thryothorus~~ ~~sp. xim.~~ ~~to Myiophobus~~

Kingfisher - 5 in sp.

Ceryle alcyon.

Columbigallina - Ceryle longirostris

Scaupella nica

Pipilo fuscus.

Myiophobus tenuis

low

Serna River. Lower course banks  
overhung with willows, Baccharis  
bushes and small carrizos,Querquedula cyanopt. 3 - near  
mouth of river.Fluvio forsteri? - all white  
except black cap, blk. tipped  
wings, red bill

This

Ardea herod - local name  
"Garga morena"

Quacana - 5 in - with river

Feb. 25 con

Maraca. Que,

Belizian - Que.

Tanus. ~~all white~~  
tip of wing.

Lake. local name "Japil"

Arrived Acatlan about 3 PM

Trip to Jarway in late  
afternoon.

Lake Chapala, The lake is  
higher than usual owing  
to heavy rains and the  
fact that the outflow is  
held back by a dam about  
5 leagues below Acatlan in the  
Rio Santiago. Electric power  
for Guadalajara is generated  
at the Falls of Juanaacatlan,  
but the dam mentioned is  
used to control the outflow  
for use in turning the

Feb. 25 con

turbines.

The Rio Terna has a sluggish current along its lower course, the banks becoming successively lower as the mouth of the river is approached. From the mouth of the river we entered an area consisting largely of aquatic vegetation, water hyacinths and another water plant with larger bulbs, and in places tracts of reeds of large extent. These are interrupted by lanes of open water through which we would finally emerge on the open lake not far from Jannay.

Feb. 25 con.

Ducks. Almost none seen today - those noted were a very few Stercorarius cyanoptera and Anas diazi.

Stercorarius cyanoptera. A few seen near Acollan.

Anas diazi. A single pair seen near Acollan, sitting on an elevated marsh bank, suggesting that they may be paired to breed. A number of these birds have been seen in pairs or in small groups consisting of several pairs.

Jalisco.

Feb. 26. La Barca, to Irapuato, Guanajuato.

Conference with Refugio Ortega. Pintail - he says lots of them last week but now gone.

Feb. 26 con.

Widgeon - local name  
"saradillo";

Pintails begin to arrive  
latter part of August.

Widgeons arrive a little  
later than pintails.

Geese begin to come in  
Oct. and leave in <sup>early</sup> Feb. ~~the~~

Three species are claimed by  
him to have come formerly.  
white-fronted, white geese,  
and a very few Branta  
canadensis. This year very few  
of the white-fronted came  
and few still of the white  
geese and no Brant at all.  
Last year he saw 4 Brant.  
He attributes their failure to  
come to the mild winters  
as it did not freeze.

much this year.

✓ This has been a great duck  
season according to Ortega.

about 4 years ~~thousands~~ of  
ducks died soon after they  
arrived about the end of  
August. Gulls, curvies, roseate  
spoonbill, local name "ispatula"  
and others also died. The  
diver did not affect geese  
or galleretas (coots).

*Fulmar* ~~leucorhynchus~~, said to live here  
all the year and nest.

Black necked stilts - local  
name "candillero". Ortega  
claims they nest here.

Avocet - Local name "boceta"  
according to Rufus Ortega.

~~Avocet~~ Left ~~La Balsa~~ <sup>begin</sup> 10:10  
A.M.; arrived Tlapuats about  
3 P.M.

*Quercus macrocarpa*. A large <sup>at</sup>  
along road in the <sup>tree in plaza</sup> ~~tree~~ <sup>Tlapuats</sup>.

Feb. 26.

Passer domesticus, I looked for this species in the city of Mexico, but it does not seem there and appears to be absent in Orapuate.

Feb. 27, Orapuate to San Luis Potosi.

Orapuate alt. 1724 meters.  
Left Orapuate 7.05 A.M.

~~Orapuate~~ Salamanca - 8 A.M. alt. 1722 m.  
In this section of tableland where soil has apparently never been disturbed dominant plant species is a short-leaved mesquite. Larger trees left in cultivating land giving landscape an orchard-like appearance.

Pyroceph. r. mex. - Pair perched on cottonwood at Santa Cruz. Eto.  
alt. 1750 meters.

Distribution, Gen. plain near Orapuate of heavy black soil, No signs of gophers or kangaroo rats. Soil texture must be an important factor in determining the dist. of these and other rodents.

Castor oil beans. Leaves severely frozen.

Arrived Tampulime Gonzales 11.15 A.M.

|                        |                       |
|------------------------|-----------------------|
| Astrag. p. mex.        | } Tampulime Gonzales. |
| Pipilo fuscus          |                       |
| Chondestes g. strig.   |                       |
| leucopod. m. fusc.     |                       |
| Lanius l. excubitor.   |                       |
| Buteo b. cal.          |                       |
| Tree Opuntia           |                       |
| Acacia farnes          |                       |
| Gutierrezia (yel fls.) |                       |

*Thryomanes bewickii* - Conf. Gonzales  
= now *Testobeds*.

Left Tampalme Gonzales 2.15 P.M.;  
arrived S.L. Potosi 7.35 P.M.

Feb. 28 - San Luis Potosi  
to Tampico, Tam.

Left S.L.P. 10.10 A.M.

*Passer domesticus*, abundant  
in S.L.P. - not noted farther  
south.

*Crotona tridentata*. Abundant  
on plain  $\frac{1}{2}$  an hour run  
on R.R. to Tampico east of  
S.L.P. Grows here on  
leptite soil associated  
with mizzito.

*Notonotus a. lucidus* - a few  
found in market S.L.P.  
sold at 10 cents each.

*Dipod. spectab.* Burrows  
about  $\frac{1}{2}$  an hour run east  
of S.L.P.

Villar - a sharp drop to  
lower levels at this point,  
down through rocky country  
the steep slopes being  
dense veg. differing widely  
from that of plain above,  
but apparently S. Son. in  
character. Main drop down  
to level station of Montaña.

*Argemone*. Species common in  
plants south of S.L.P. and  
Lake Chapala to ju. fl. and  
wh. sp. appears along R.R.  
near Montaña below Villar.

Cardenas. From rather barren  
rocky hills near this point  
descent is rapid. Hills largely

grassy, with small brush,  
such as misake grassy sur-  
face more open than farther  
west. (990m)

Gasleanoas. Strategic point  
for work, open grassy country  
just above, with gopher holes  
in reddish soil, tropical  
savanna just below  
bordered by dense forest. #  
Little town where lodgings  
could probably be secured.  
Time left, To S.S. / prepare  
give probably silver Gas  
canvases & blankets, To  
of ~~Plants~~ freezing with  
on veg. at Candia house.  
# # # drop to Tamasopo,  
#  
Tamasopo (351m.) Gophers

Wish short distances  
above in edge of garden.  
Little place with China re-  
tained. Could my little find  
lodging, but would appear of  
few

Guanaco

Bluebird

Elephant.

Raccoon. Think I saw gopher  
workings near, think town  
probably lodgings. Getting dark  
soon after we pass the  
point.

Mar. 1, 1926, Tampico.  
Arrived Tampico 12:10 a.m.

Saw American Consul, Chas.  
A. Bay, Dr. Hudson, Harry  
W. Birdie, Mr. Adams

Dr. Hudson says  
Cottontail - all at once  
Blue wing & green  
Blue bills  
Widgeon

Tree duck - *gambelii*  
Muscovy - *ferus* etc.  
many others - local names "polecat"

Spoonbills - they come now  
and stay until May.  
✓ Mallard. Never seen.

Guano. 100000 100  
miles N. 50 miles N. of Gonzales  
Station on R.R.

Dr. Rutter says Oct. 1.  
Sp. Shed hairs about Feb. 1<sup>st</sup>  
Lawns! <sup>awful</sup> Apr. 15 - July 1<sup>st</sup>. Men say  
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that yg. ducks run first with  
olden does & olden ducks  
later with yg. does,

Wild turkeys. Begin getting  
about now. Do not get very  
fat.

Ducks are good eating.

Jacksnipe - New here, White  
24-25 unusually abundant

Ask someone if he  
got mallard at Leray, Tam, "2  
way bet. Freeport & Monterey,  
and got far from ~~there~~  
Mr. Adamis says:

~~Reservoir~~  
between trees } all covered  
Blue wing  
Green wing  
Pintail  
Spoonbill

Golden-eyes?

Redwings - a few.

Jacksnipe stay here all  
winter.

Cawanda goose } These are the  
Black Brant, } <sup>from Mr. Adams</sup>  
this country. } <sup>thinks come to</sup>



(Pm.)

Mar. 2, Tampico, Tam.  
Got up 3.30 A.M. to go hunting  
with Dr. Hudson and another  
man, but it had rained hard  
during the night and we got  
stuck before we got out of  
town and had to return.

Out with Edwin Tolvey,

Spoonbill

Pintail

Blue winged teal

E.S. Mar 2 con.  
 Dr. Hudson No. 143  
 broken yellow legs  
 Green yellow legs.  
~~Green yellow legs~~  
 This  
*Agelaius vociferans*  
*Stelodas agitata* - large  
 number.  
*Agave agave*  
*Gallus* down.  
~~Game in balance~~

Mar. 3, Tampico, Tam.  
 Up and off shortly after 4 a.m.  
 with Dr. Hudson and Edwin  
 Falvey on goose hunt.  
*Anser albifrons*. Found about  
 25 kilometers west of Tampico  
 where considerable areas dry  
 later in season are ~~now~~  
 now flooded. The geese fly  
 about early in morning usually  
 out of gun shot but are  
 occasionally killed. Last Sunday  
 Feb. 28 Dr. Hudson states that  
 he killed 2 from a flock  
 flying over, and saw about  
 500. This morning I took a  
 stand behind a bush and  
 about 20 alighted on the  
 ground within 200 yards, but  
 in a place where they could  
 not easily be approached.  
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Mar. 3 con.

This was a place they had evidently frequented as there were numerous droppings on the ground. The birds walked about, some apparently on the lookout. Flapping their wings and apparently searching for food. I had good views of them through glasses and could see the white on their heads very clearly. They finally flew when Talmy tried to crawl up on them and I fired 2 shots at about 100 yds. Several other small flocks were seen. At one place we drove the car full speed at a small

bunch and got within about 75 yards when we ran the car into a swampy place and were stuck.

Mycteria americana. A flock of 6 of these birds circled curiously about me within shooting distance while I was in the <sup>water</sup> ~~marsh~~ thus morning about 25 miles west of Tampico.

Plegadis falcinellus. Large numbers or flocks of 20 to 30 in flooded section 25 miles west of Tampico. 2 shot and examined.

Ayaya ajaya. One seen flying near ~~water~~ in flooded area 25 miles east of Tampico.

Mar. 4. Tampico to  
charcos west of town.

Fulica americana.

Pintail (1 at first pond)

Spoonbill, abundant

Ruddy (4 males seen) charcos  
west of town.

Centramerus teal. Four or five  
seen in charcos west of town.

Phlegadis autumn, In flocks  
up to 50.

Juncos. Flocks up to  
about 50 in charcos west of  
town on plain overgrown  
with Acacia.

Blue-winged teal. abundant  
on charcos.

Zenaidura. Several flocks of  
from three to 7 seen.

Agelaius vociferus - 3 or 4  
together.

Mar. 5, Tampico to Tamiagua  
Lagoon and return.

Left Tampico about 7 A.M. in  
launch kindly furnished by  
Agui company with Mr.  
Carroll of the Cia. Consolidada  
de Maderas and traversed the  
Canal Canal and a distance of  
perhaps 20 miles down the  
lagoon. Returned about 3 P.M.

Tamiagua Lagoon. Open lagoon  
with mangrove borders and  
mangrove bordered islands ex-  
tending for perhaps 60 miles,  
separated from sea by sand  
ridge rising about 100 ft.  
above the water.

Fulix affinis. Thousands, the  
most abundant duck.

Canvas back - thousands

Redhead - Hundreds on Tamiagua  
Lagoon.

Mar. 5 con,  
~~Ceryle~~ ~~arguta~~  
~~Streptoceryle~~ ~~aur.~~ 2 -  
Solitary Sandpiper

Mar. 6, Tawpiss to  
Columbus and Altamaha,  
Went to Columbus on train  
and returned to Altamaha by  
auto.

Hunted in marsh in P.M.  
and at night.

~~Geothlypis~~

~~Ceryle~~ ~~arguta~~

Mar. 7, Altamaha, Tam.  
Out at 5 P.M. into marsh; intend  
to snobfark and made another trip  
returning 2.30 P.M. with norther  
blowing. Night trip planned deferred  
Geothlypis - Several one seen  
flying across tules.

Dives dives

Cornus | Bull-frog like note -  
very coarse.

Arctalis, Heard in morning  
was low.

✓ Cato real, Said to nest in bunch  
of mangrove, - on or near ground  
in March & Apr. - Eggs said to be  
white 10 - 15 in number.

Leathard flogs, Grow about  
10 ft high.

Sterna fuscata? Black-  
capped

Pato real, Visited place where

Mar. 7 con

Aguire (guide) said he had seen them go to roost. This was in mangroves, apparently *Leucocarpus* standing in shallow water about 1 ft. deep. Five or six flew out of the tules surrounding the place when we came near at noon.

Cormorant local name "patos Zuro".

*Butorides viridescens* - common  
*Fluvius caerulea*  
*Hydromys tricolor ruficollis*  
*Dichromys rufescens*  
*Myiarchus cinerascens*  
*Ardea herodias*  
*Egretta caerulea*  
*Botaurus lentiginos*  
*Ardea herodias*  
*Guara alba*.

Agelaius

Mar. 8, Altamira

Rail. This has haunts where cattail-groves grow thickly in water about 2 feet deep, its surface heavily overgrown with water lilies and other aquatic plants. It remains hidden until it is forced to appear. Usually under cover, but when it appears it appears to be a very pale bird of which it does not seem to be very shy. It usually gives a whistle when apparently unalarmed - chick-a - chick - chicka followed by a series of short, sharp, clear piping notes or whistles of high pitch.

Mar. 7 con

Mar. 8 con.

Another trip into marsh in morning and secured rest of species taken yesterday.

Aguilans - local name "tulinche"  
Tree duck, said to occur -  
with black on under parts -  
local name "pachichil"

Trip in morning after rails and in night after pato real. Entered swamp and made thorough search, but found none so trip was fruitless. Back to bed at midnight.

Mar. 9, Altamira, Tam.

Practically entire day devoted to search, without success, for Bob white. They seem unaccountably scarce. Trips off to points 5 or 6 miles north of town.

Mar. 10, Altamira to

Pampico. Trip in morning to llanos del Priol ~~at~~ about 6 mi. north of town, extensive open grassy areas such as formerly extended to very near Altamira. Found a very few quail, but obtained no specimens. Trip in afternoon to charal fields near Altamira where a covey of quail was located from which I secured

Mar. 10 con.  
in breeding one bird. Returned  
to Tampico in evening.

Altamira. Great changes in  
character of low plain near  
town since my visit about  
26 years ago. Grassy plains  
dotted with hummocks and ballesteras  
and occasional clumps of cactus  
have grown up to fairly dense  
brush near town, leaving open  
areas remaining not more than  
5 or 6 miles - and lakes areas in  
lagoon have greatly extended  
and are still extending owing  
to shallowing of water. Altamira  
said to have been a port  
reached by vessels of considerable  
draft many years ago. Changes  
apparently due to the building  
of a dike by the Tamisi River  
during floods.

Mar. 10 con.

Wild turkeys. Now much rarer  
than formerly near Altamira.

Deer. Said to have decreased  
in numbers near Altamira in  
recent years. Now hunted a great  
deal at night by natives who  
use acetylene lights. Cartridge  
now sold in many of the small  
towns for use in such lamps.

Cobras. Have greatly decreased  
owing to hunting with dogs near  
Altamira and also probably  
owing to changes in the  
character of the vegetation.



Mar. 10 cont. 20-0

Mar. 11. Tampico.

Remained in town preparing to leave for Parron tomorrow.

Anser albifrons. Mr. Armstrong told me he killed one of these from a high-flying flock Mar. 7, about 30 kilometers west of town.

Ducks. Ed. Falvey tells me that the ducks I found so numerous a few days ago on the channels west of town have apparently nearly all gone or ~~were gone~~ as he noted in visiting that section Mar. 8. Weather. Has turned quite hot today.

Mar. 12. Tampico en route to Parron.

Left Tampico 6.05 A.M.

Near Gonzales the precipitous Cerro del Bernal rises from the plain about 15 miles to the west apparently reaching an elevation of 1500 or 2000 ft. and heavily forested on top. Said to be too steep to be ascended as some engineers who attempted the ascent some years ago failed to reach the top.

Sierra de Tamaulipas, clearly visible to the east about 15 miles from Rosillos. Apparently an irregular chain of mts. rising to perhaps 2000 ft. above the low plain, and covered with low forest.

Crows very. Several seen at Rosillos.

Mar. 12 con.

Rosillo. Char. of veg. indicating  
early freezing much drier.

*Leucodermis*. ~~Here~~ At Rosillo  
first noted

Weather cloudy,  
Foggy. Nearing the hills  
to right & left. ~~Weather~~  
Heavy local shower at  
this point.

Fairly high mountains appear  
east of R.R. north of Soto La  
María River valley, ~~for~~ apparently  
rising 2000 or 3000 ft. above  
plain.

Reached Monterey 10.30 P.M.  
train left

Mar. 14

Mr. Dodson says always  
many ducks until this year.  
Ducks come about Dec. and leave  
mainly early in Feb.

1419 Hidalgo Ave. - Dodson.  
Machinery. Res. San-Calle Trujino  
La Aurora cantina on cor. red  
post across street in middle  
of block.

Mar. 15. Torreon

Trip out to water areas in morning. Depressions carrying permanent water bordered by willows, patches of tules and surrounded by fields.

Canvas backs about a dozen.  
Fulica about 200

Ruddy, about dozen,  
Podilymbus pod. sum.

Redhead, about dozen

Scamp, collaris?, a few.

Marica americana, about a dozen.

Querquedula cyanoptera, a few

Spatula clyp., about a dozen

Rafila acuta, two or 6

Places visited called.  
Vega de la Candelaria and  
Vega Seca.

Mar. 16. Left Duran  
3.25 P.M. and reached  
Tlahualilo, 6.50 P.M.

Presa de la Boquilla,  
on Rio Conchos, extends  
for long distance. Near  
Sta Rosalia and running  
furnishes power and water  
for irrigation. ~~off~~  
Boquilla Water & Light  
Co., Mills Bldg. El Paso  
Tex. <sup>Said to be most easily reached  
auto about 4 hours from</sup>  
Tlahualilo.

---

David Russek & Co.  
can tell who owns  
Bustillo Lake

---

J.M. Fairbairn  
Gen. Mgr. Tlahualilo  
Cera del Tlahualilo,  
Fla Dur.

H.W. Potter, Asst. Mgr.  
N.C. Loftin, Field Mgr.  
72a H.W. Fack, Asst. Field Mgr.

Ed. Butteringham  
La Habana - Soap  
Factory - Gowing Palace

Mt. they said to come  
in mountains near Gowing  
del Rio (South of) ...

... said to come near ...  
Chihuahua, smaller spray of,  
in Gowing hills

Dr.  
Aiken to Leeds,

Mar. 17, Nahuatla  
Spornbill,  
Cinnamon teal,  
regalites.

Dafila ventral - sent a dozen  
in one group.

Surquawula distos.

Falica

Udea wood.

Lower yellowlegs.

regalitis vocif.

Pilican (white)

Glossy Ibis.

Dead duck, Fragments of

twigs of ...

green ...

... died of some alkali, but

not strong enough to prevent

cotton-growing.

72c Mar, 17 con.

*Sayula acuta* - 15 seen in one group, about 1<sup>st</sup> to arrive in Oct, and seen <sup>usually</sup> in Sept. when there is early water.

Sandhill crane, appear in Nov. & Dec. in corn, sorghum & mild mangle fields. come every year sometimes in flocks of 50 to 75. While they do feed ordinarily with ducks a good many of them die as same time as ducks. A good many sick birds were picked up by natives and eaten. <sup>Sayula acuta</sup> ~~Loft~~ cranes & ducks.

<sup>Sayula acuta</sup> Ducks. Sometimes do considerable damage by eating sorghum taking the heads of sorghum left ~~for~~ to ripen for forage and for seed.

Mar. 17 con.

ducks

<sup>Tadpole collector</sup> Teal - A few mixed with other ducks.  
Ruddy - A few mixed with other ducks.

Abbas, ordinarily an area 50 uplakes - 250 x 2000 meters commonly divided in 4 squares. <sup>Abbas</sup> Mr. Fairbairn says he has frequently seen geese passing so high overhead they could hardly be seen at times on Nazas River in northern part of state, but he has never seen them here, but has seen a few white geese.

Rosetta spoonbill? About 1907 or 1908 Mr. Fairbairn reports seeing a large flock of what must have been these birds on the Nazas River near Lemer 72d

1 Mar 18, Tarrion  
Returned to Tarrion in morning,  
leaving Chihuahua, 6.05 A.M.  
and arrived Tarrion about 9.25  
A.M. Spent remainder of day  
attempting to route mail  
in Tarrion.

Mar. 19. Tarrion en route  
to Chihuahua.

Left Tarrion 1.35 P.M.  
Route of Quon San. Chan. Low  
scattered mesquite and huicila  
dominant plants. Reached  
Escalon shortly before dark.  
Small place with round  
house. Irregular ~~the~~ broken  
and pointed hills <sup>at 15.</sup> 10 miles  
away to the east, rising  
perhaps 1000 ft. above plain.

Mar 20. Chihuahua  
Arrived Chihuahua 7 A.M.

Between Chihuahua and Tarrion the  
canyon was the only  
canyon back. The river was  
about 25 miles long  
here in the river  
among the mountains.

Bas Chihuahua.

Gate Tarrion - Gate  
Boquilla, 42 miles long  
Arch of Gate of Tarrion  
67.6 ft. in, or 43,250

Leave. 7th Jan  
Thomas M. Connelly at Chihuahua

728.

18. Jan. 1887. says:

1. 5. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

✓ 1. 5. 1887. 1887. 1887.

wh. goose.

12000 at that time.

Beal's book with 1887.

inside of bill - inside of eye.

of 1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.

1887. 1887. 1887.



after the 21st. I believe will  
give me little to him or can  
furnish information about  
me. But I hope I can  
avoid the same thing.

The ~~bottom~~ <sup>back</sup> of  
Says ~~not~~ <sup>back</sup> seen in  
Jawa 21 (Diablo, 60 and  
50 of ~~Diablo~~ <sup>Diablo</sup> in

Supr Miss Norelita R.R.  
Excalon Calif. could  
probably get one

Mr. Craft says <sup>analogous</sup> ~~resemblance~~ to Majoma Parish, and for  
Milestone about 70 mi. N.E.  
of Orléansville direction of  
Africa.

mt. slope in few years of  
in Pancheria mt. and  
Barro de Lincos mt to  
right of pt of R.R. about  
60 miles south of Juarez

Go from San Antonio to  
Pueblo de la Laguna. 3  
leaves near there, then go  
into Stonewall pasture west  
of ranch some <sup>distance</sup> miles near  
there and come down to  
Lake. Should find walls  
that are green and  
blue. I think best way  
to get to edge of lake

Mar. 22, Ahualulco to  
Bustillos Lake & Luvapimachic.  
Left Ahualulco 7.30 a.m. by  
Northwestern R.R.

Route as far as San Andres  
through rolling or irregular low  
hill country with small, generally  
linear valleys appearing in places.  
Country generally grassy and  
apparently waxy. Upper Sonoran,  
but a few low-growing  
mesquites and acotillos appear  
in places especially on south  
slopes. Some miles east of  
San Andres a few scattered  
acotillos noted on some  
hill sides with small, scattered  
junipers.

West of San Andres we begin  
to ascend more rapidly winding  
through hills with ridges appearing  
in places, largely grass-covered

727 Mar. 22 con.

But oaks begin to appear along with the junipers, and walnuts and cottonwoods occur along small streams. These soon followed by a few pinyon. In less than an hour of slow travel we come out <sup>near Bustillos</sup> on a high, level grassy plain with low hills <sup>scattered here and there</sup> rising higher a mile or two away, bearing a scattered growth of small oaks.

Bustillos Lake - in depression behind ridge of hills - lowish part of plain extending many miles

|               |            |                         |
|---------------|------------|-------------------------|
| Fulcrum crane | 12         | } San Antonio small dam |
| Pintail       | - about 10 |                         |
| Ruddy         | - " 30     |                         |
| Spoonbill     | - " 100    |                         |
| Cinnamon Teal | - 1        |                         |

Jacksnipe <sup>about</sup> - 25  
Cerulean - <sup>about</sup> 10  
~~Mallard~~  
~~Jacksnipe~~ - " 10  
Green-winged Teal - about 12

Bustillos Lake

Mallard 20 } Birds near.  
Greater Yellowlegs } Bustillos Lake

{ White Grease - about 150  
Spoonbills - thousands in groups of hundreds  
Mallards - Hundreds - thousands in groups

Mr. Harrison's says

Snow geese. Thousands seen early in March 1925 and 22 killed by 2 men first Sunday in that month. Remain until Apr. at least.

White-fronted. Thousands here until about 2 weeks ago. Sacked as they appeared like stone walls on spits running out into

Bustillo's Lake.

72nd Sand Hill crane. Come about  
later part of Oct. but in  
greatest numbers in Jan.,  
wintering and shows glaze

Mr. Smith says  
Mt. Shuf, about 20 seen last  
years 40 or 50 miles east of  
Gallegos - in El Rayo Mt. and  
La Escaramusa.

antelope - about 80 in little  
south of same general  
vicinity.

Redwing, black bird - lots seen  
Bustillo's Lake.

Reached Bustillo's Lake.  
Reached Escambray 6:30 PM  
leopard. m. fuscatus - abundant  
at Cuxi.

Mar. 23 Escambray  
to Cabaiguana - Trip in morning to  
Florida - apparently north on bill.  
Spoonbill - 50  
Merganser - 1 - sp?  
Bufflehead - 3 - whole back of head &  
sides of body white - (2 a pair of  
apparently with some white appearing  
as a spot on side of head)  
Cinnamon teal - 6  
Green-winged teal - 12  
Mareca americana - 50  
Canvas back - 2  
 Pintail - 50  
Fulvia americana - 1  
Archibuteo occid. - 1

San Juan  
Zaguna number

Left Cuxi by auto no charge  
and returned to San Antonio where  
about 3 PM took train for Chib.  
arriving 7:10 PM; Left Chib. 11:45  
PM for Tancitaro. 72m

Fernando Garinara  
Hernandez Cotton Ranch  
Pedriña, Dgo.

Ranch about 10 miles from  
Pedriña. Said to be  
good place for ducks on  
Nagas River. <sup>when time if</sup>  
I should go later.

Mar. 24 En route ~~Chihuahua~~  
to Torreon.

In morning south of Juarez;  
arrived Torreon 1:10 PM.

W. H. Dodson,  
APT. 72  
TORREON  
COAHUILA  
MEXICO

} wishes to be  
placed on  
mailing list,  
and left of  
pub. available.

720 Mar. 25, Tarreon, Coch.  
Remained at Tarreon.

Went to Gomez Palacio  
in morning and saw  
Edward Brittingham ~~and~~  
at the plant of the Compañia  
Jabonera and found him  
well-informed concerning  
game conditions.

Mr. Brittingham says:  
Said he cranes come about  
Oct., and remain in thousands  
until early in March.

Swans, sometimes appearing in  
small numbers, none this  
year.

Ducks abundant but more  
scattered than usual on  
account of abundance of  
water.

Order of abundance  
of all plentiful

Mr. Edw. Brittingham says:  
Blue & Green-winged Teal  
 Pintail

Shoveller,

Baldpate

Ruddy

Goldeneye (a few)

~~Common Merganser~~ <sup>sp?</sup>

Canvas-back (very few)

Godwall (in season numbers)

Mallards (very few)

Redhead (very few)

Greater & lesser yellowlegs

White geese, ~~Peter~~ <sup>Nov.</sup>

until Apr.

White-fronted end of Oct or  
1<sup>st</sup> Nov. Apr.

Blue quail largely wiped  
out by trapping, formerly abundant.  
~~Common quail~~ sometimes come in  
in numbers but not so abundant  
as formerly? 727

Duck sickness - all wild  
most pintail & blue-winged  
teal. Many just before times,  
but died up to a date not  
definitely fixed.

---

Mr. J. H. Grant  
Corpus Christi, Tex.,  
Office in Grant Bldg.  
Brother of W. L. Grant of  
Dodson Mfg. Co., Parson.

---

At Corpus Christi go to  
Nueces Hotel.

---

Mr. Emilio

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~~Carlos J. Aguilar~~  
near El Marte, Coah.  
Reported seeing guillemots Mar. 25  
in large numbers in cultivated  
fields near El Marte.

Mr. Emilio Moders  
Mt. Sheep - about 40 in  
Cuchilla de Garcia about  
100 kilos each.

Mar. 27. San Pedro.  
Trip to San Marcos about  
12 mi S. of San Pedro.  
Spoonbill. - about 100  
Maraca awn, - 10  
Cinnamon tree - 30  
Scrub - 6  
✓ *Himantopus mex.* 20  
✓ *Cinclus* - 12  
✓ *Jacksnipe* - 100  
Swans, note from Raul Moders.



72<sup>x</sup> / Mar. 28 - Trip to Lake  
Meyran.

Spoonbill - 100x

Marbled awn. - 50

Ardeotis - Small flock 5-20

Phalaropus - Flocks 6-15

Pintail - Small flocks 5-6x

Green-winged teal - 75

Docty.

See Jesús J. Treviño

Plaza Purisima  
Monterrey N.L.

Idolgo #167. -

Left San Pedro, Coah. 11:45 PM  
en route to Matamoros, Tamps.

Mar. 29. Monterrey, N.L.

Remained all day in Monterrey  
waiting for train to leave early  
tomorrow morning.

Mar. 30, Monterrey to  
Matamoros and Brownsville, Tex.

Left Monterrey 6:30 AM  
ar. Matamoros 5:40 PM.

Find gopher bulletins,  
 via oil. Holwells  
 Holwells, Tex

---

To. Keottan 10.15 a.m. M. Drops 3.10<sup>pm</sup>  
 " Drop. 7.05 in " Fagals 10.00  
 " Change in Falsawase 7.46?  
 " Gapselwe 2.15-11.35 P. 7.35  
 " S.L.P. 10.10 " Tampico 12.10 a.m.

|       |       |       |
|-------|-------|-------|
| 10.15 | 11.35 | 12.10 |
| 1.00  | 4.53  | 1.05  |

To. 6.00 / 2.00 7.00 8.00 P.M.  
 " 7.50 8.00 8.10 P.M.  
 " 8.10 8.20 8.30 P.M.

James W. Bradbury  
 Mexican Gulf Oil Co.  
 Tampico.

~~10.15~~ 7.00 P.M.

8.50 H...  
 9.00 11.40  
 9.10 6.00

PENALTY FOR PRIVATE USE  
TO AVOID PAYMENT OF  
POSTAGE, \$300.

UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF BIOLOGICAL SURVEY.

WASHINGTON.

OFFICIAL BUSINESS.

U. S. Department of Agriculture,

Washington, D. C.

Bureau of Biological Survey.

Sr. Manuel Muñoz  
Presidente Municipal  
La Barca, Jal.